

Ada County, Idaho

3068—Aldape-Dangulch-Castlerock complex, 8 to 35 percent slopes

Map Unit Setting

National map unit symbol: 2185s
Elevation: 2,780 to 3,630 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 47 to 51 degrees F
Frost-free period: 110 to 150 days
Farmland classification: Not prime farmland

Map Unit Composition

Aldape and similar soils: 35 percent
Dangulch and similar soils: 25 percent
Castlerock and similar soils: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Aldape

Setting

Landform: Hillslopes
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loess and/or weathered volcanic ash over sandy alluvium

Typical profile

A1 - 0 to 5 inches: loam
A2 - 5 to 11 inches: loam
Bt/E - 11 to 14 inches: clay loam
Bt1 - 14 to 22 inches: clay
Bt2 - 22 to 29 inches: clay loam
Btk - 29 to 35 inches: loam
Bk - 35 to 47 inches: sandy loam
Bkq - 47 to 53 inches: sandy loam
2Bkqm - 53 to 60 inches: cemented material

Properties and qualities

Slope: 8 to 35 percent
Depth to restrictive feature: 40 to 60 inches to duripan
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 5.0
Available water storage in profile: Moderate (about 7.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: Loamy 8-12 ARTRT/PSSP6 (R011XY026ID)

Description of Dangulch

Setting

Landform: Hillslopes
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Silty lacustrine deposits

Typical profile

A - 0 to 5 inches: silt loam
Bt1 - 5 to 7 inches: silty clay loam
Bt2 - 7 to 15 inches: clay
Btk - 15 to 21 inches: silty clay loam
Bk1 - 21 to 29 inches: silt loam
Bk2 - 29 to 48 inches: loam
Cr - 48 to 58 inches: bedrock

Properties and qualities

Slope: 25 to 35 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat):
Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Gypsum, maximum in profile: 5 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 5.0
Available water storage in profile: Moderate (about 8.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: NORTH SLOPE LOAMY 12-16 FEID-PSSPS (R010XY001ID)

Description of Castlerock

Setting

Landform: Hillslopes
Down-slope shape: Concave

Across-slope shape: Linear

Parent material: Clayey alluvium and/or colluvium derived from tuff and/or volcaniclastic lacustrine deposits

Typical profile

A - 0 to 3 inches: loam

Bt1 - 3 to 12 inches: clay loam

Bt2 - 12 to 23 inches: clay

Btk1 - 23 to 28 inches: clay

Btk2 - 28 to 40 inches: clay loam

Bk1 - 40 to 45 inches: paragravelly clay loam

Bk2 - 45 to 54 inches: extremely paragravelly loam

Cr - 54 to 64 inches: bedrock

Properties and qualities

Slope: 8 to 25 percent

Depth to restrictive feature: 40 to 60 inches to paralithic bedrock

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 5.0

Available water storage in profile: Moderate (about 6.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: Loamy 8-12 ARTRT/PSSP6 (R011XY026ID)

Data Source Information

Soil Survey Area: Ada County, Idaho

Survey Area Data: Version 4, Sep 9, 2015